SUNSHINE IN THE HOME

WHITE · BRIGHT · SMOKELESS

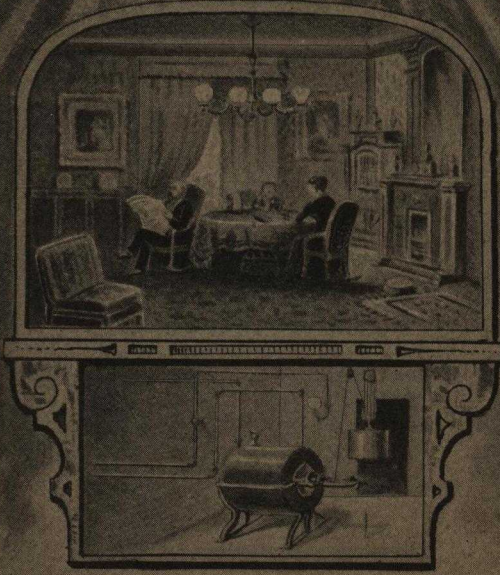
GAS-LIGHT

MADE BY

DENNY'S

IMPERIAL GAS MACHINE.

DENNY BROTHERS



36 PARK PLACE · NEW YORK.

OUR OBJECT

In sending you this little folder is to call your special attention to our IMPERIAL GAS MACHINE.

We have been making and placing these machines for nearly twenty years. They are in use in all parts of the United States, in Canada, Cuba, Hayti, St. Domingo, Australia, Russia, the various states of South America, and in other countries. Wherever placed they do the work claimed for them.

Every modern improvement is embodied in our IMPERIAL Machine.

There are other gas machines on the market. The makers of some of them claim a monopoly of merit, but *claims* are not proofs. INVESTIGATE, and you will find in the IMPERIAL Machine every valuable feature that can be found in *any* other and some that *no other machines possess.* We are selling more of them now than ever before—the best possible proof of their genuine merits.

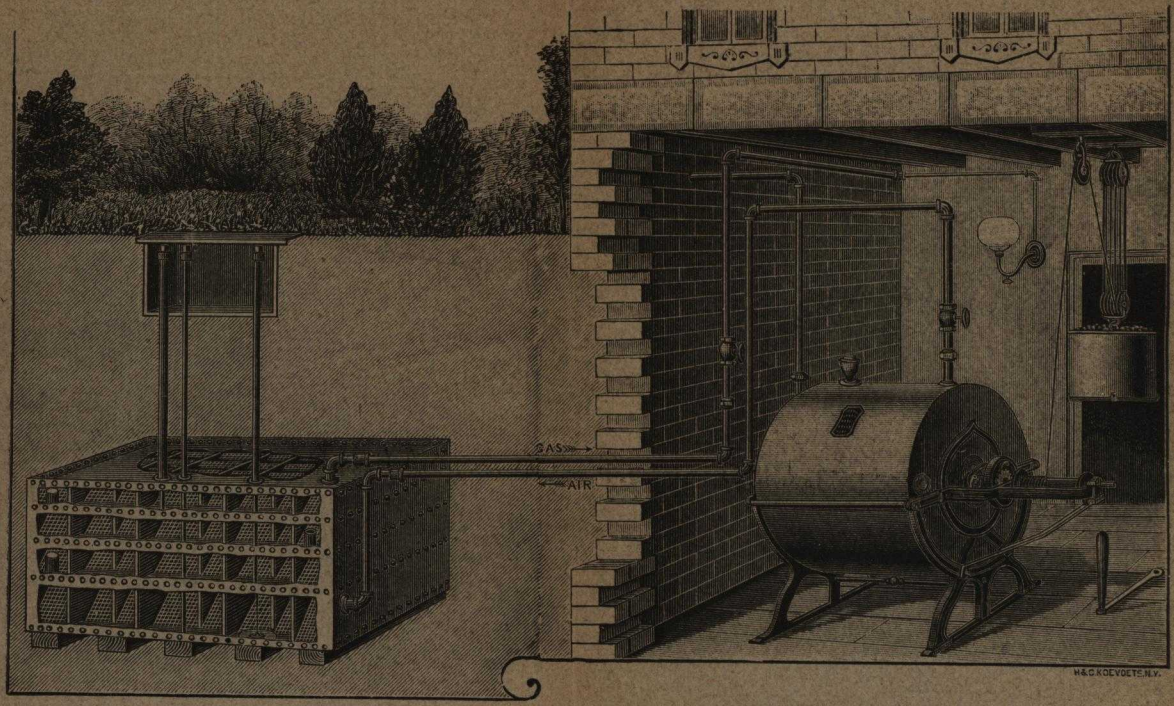
If you are expecting to purchase a Gas Machine, send for our larger circular, or better still, let us call on you and present the matter in detail.

DENNY BROTHERS,

36 PARK PLACE, NEW YORK, U. S. A.

· · · DENNY'S IMPERIAL GAS MACHINE · · ·

EIGHTEEN YEARS SUCCESSFUL OPERATION — EVERY MODERN IMPROVEMENT — LEADS ALL COMPETITORS



GENERATOR BURIED IN THE EARTH AT ANY DESIRED DISTANCE FROM THE BUILDING

AIR PUMP IN CELLAR

THE BEST MADE AND MOST EFFICIENT GAS MACHINE ON THE MARKET. ALWAYS DOES ITS WORK

DENNY'S IMPERIAL GAS MACHINE

Is an apparatus for supplying Residences, Hotels, Factories, Mills, Colleges, Churches, Public Buildings, or groups of buildings with a safe and cheap illuminating gas.

It is *automatic* in its operation, making the gas just as it is used. When any number of burners are lighted the machine operates to supply exactly the quantity of gas consumed, and stops when the burners are turned off.

It is *simple* in construction. Has no intricate Machinery about it. All the working parts are located in the cellar of building as shown in the illustration. Any person of ordinary intelligence can attend to it, and it takes no more time than would be occupied in filling, trimming, and cleaning one kerosene lamp. Our printed instructions are so complete and explicit that any one can understand and care for the machine.

It is *reliable*. Is not an experiment. Has been in practical operation for nearly twenty years, in all parts of the world, and is everywhere recommended by leading Architects and Engineers. Every feature has been fully tested. It can be *depended upon* TO DO ITS WORK.

It is *economical*. The cost of the gas never exceeds one dollar per thousand cubic feet—less than coal gas and but little more than kerosene.

It is *durable*. The Air Pump is made of hard-rolled copper; all seams riveted and soldered; brass mountings; running gear heavy, well proportioned and highly finished. The Generator is made of heavy galvanized iron; all seams close-riveted and sweated; brass mountings. No other Gas Machine on the market will compare with the IMPERIAL, for excellency of workmanship, weight of metals used, and perfect principles of construction. We invite such comparison.

It is *safe*. All the gasolene is handled at a safe distance from the building and there stored, six feet or more underground. No gasolene ever enters the building. The Air-Pump contains only water and air, and no gas enters the building except through the main gas pipe. No artificial heat is used in making the gas, nothing but cold air and gasolene vapor. The use of kerosene in lamps is necessarily dangerous and offensive. It is almost impossible to avoid the frequent soiling of carpets, furniture, and person. There can be

no question as to the greater safety and cleanliness of using gas delivered through permanent pipes and fixtures.

The IMPERIAL Machine and manner of placing it has been approved by the National Board of Fire Underwriters, and buildings lighted by it are insured in all American and British companies at the same rates as if supplied with coal-gas from city mains.

The *light produced* is clear, strong, and mellow, fully equal in illuminating power to the best coal gas.

Gas Stoves, *Ranges*, *Water-backs*, *Gas-logs*, and all gas devices for warming, cooking, or mechanical purposes can be operated with as satisfactory results as may be obtained with coal gas.

The IMPERIAL is made in *various forms*, adapted to different kinds of work. The Air-Pump is sometimes arranged to be operated by a water motor instead of weight and pulleys. In mills and factories it is often as well and cheaper to use a small power blower instead of the Air Pump. Our Generators also are made in forms specially adapted for large work.

If you contemplate the purchase of a Gas Machine, let us give you the benefit of a long and large experience in the business.

DENNY'S GAS AND AIR MIXER

Is the most valuable and desirable improvement for Gasolene Gas Machines that has been made during the past ten years.

It is an attachment for perfectly equalizing the quality of the gas, thereby preventing all smoke and doing away with the necessity for adjustable burners.

Unlike other devices for which these results have been *claimed*, our MIXER ACTUALLY DOES THE WORK—does it *perfectly* at all times and under all conditions to which a Gas Machine is subject.

It is simple in design, easily understood, substantial in construction, not liable to derangement, and occupies little space.

The office of the MIXER is to intercept the gas made by the gas machine in its passage from the generator to the burners, and, by the admixture of measured quantities of air, reduce it to a quality best adapted to economical consumption and perfect combustion, and maintain such quality at all times and under all conditions. *Our Mixer* DOES IT; does it automatically and continuously; does it as perfectly for one burner as for a thousand.

FIXED, OPEN BURNERS CAN BE USED, AND A LIGHT OF UNVARYING UNIFORMITY AND BRILLIANCY PRODUCED.

Our MIXER is made on an entirely different principle from anything of the kind heretofore offered to the public. Its operation does not depend upon the working of a diaphragm, nor upon an equal pressure of the gas and air passing through adjustable valves. Its motion is *positive*. It is impossible for either the rich gas or the pure air to pass through it except in measured quantities of each. The mixture is effected by a *mechanical operation* governed and controlled by the quantity of gas consumed.

REFERENCES TO PARTIES USING OUR MACHINE, IN ANY PART OF THE COUNTRY, WILL BE FURNISHED ON APPLICATION.

SEND FOR OUR ILLUSTRATED GAS-MACHINE BOOK.

NOTICE THESE "POINTS" ABOUT OUR GAS MACHINE

1st. *It is absolutely* SAFE. No conceivable condition can make it anything but *safe*.

2d. *It is* SIMPLE in design and construction, easy to understand and care for.

3d. *It is* DURABLE. Materials carefully selected, thoroughly tested, heavy and substantial. Workmanship first-class in every detail of construction.

4th. ITS RATING IS CONSERVATIVE. The air-pump is large and powerful. The generator is stronger and more powerful than that of any other machine.

5th. It is adapted, in its various forms, for lighting *all classes* of buildings—from 20 to 2,000 burners.

6th. It makes a brilliant illuminating gas for less than $1 per thousand cubic feet.

7th. The gas can be used equally as well as coal-gas for all mechanical and heating purposes, as in Burnishing Machines, Stamping Dies, Gas Heating and Cooking Stoves, Gas Logs, Gas Water Heaters, Gas Engines, etc.

NOTICE THESE "POINTS" ABOUT OUR MIXER

1st. It has been in practical use for several years, and its uniform success enables us to *guarantee it to do the work at all times and under all conditions.*

2d. It is as well-made, consequently as *durable*, as the Gas Machine.

3d. It makes a saving of 25 to 50 per cent. in consumption of gasolene.

4th. It is made to comply with all insurance requirements.

5th. It ensures a *clear*, *brilliant*, *smokeless* gas-light with open burners.

6th. It is so simple that *any one* can attend to it.

DO YOU THINK OF PURCHASING A GAS MACHINE?

Write to us. Get our approximate estimate for machine connected *ready for operation.* If the approximate price is satisfactory we will *call and see* exactly what you require and make definite figures. We employ no travelling salesmen. We go ourselves, and when the machine is placed we give it our personal supervision.

Result—Success every time.

DESCRIPTION

The MIXER consists of two meters arranged side by side. They are operated by the pressure of the Gas and Air passing through them.

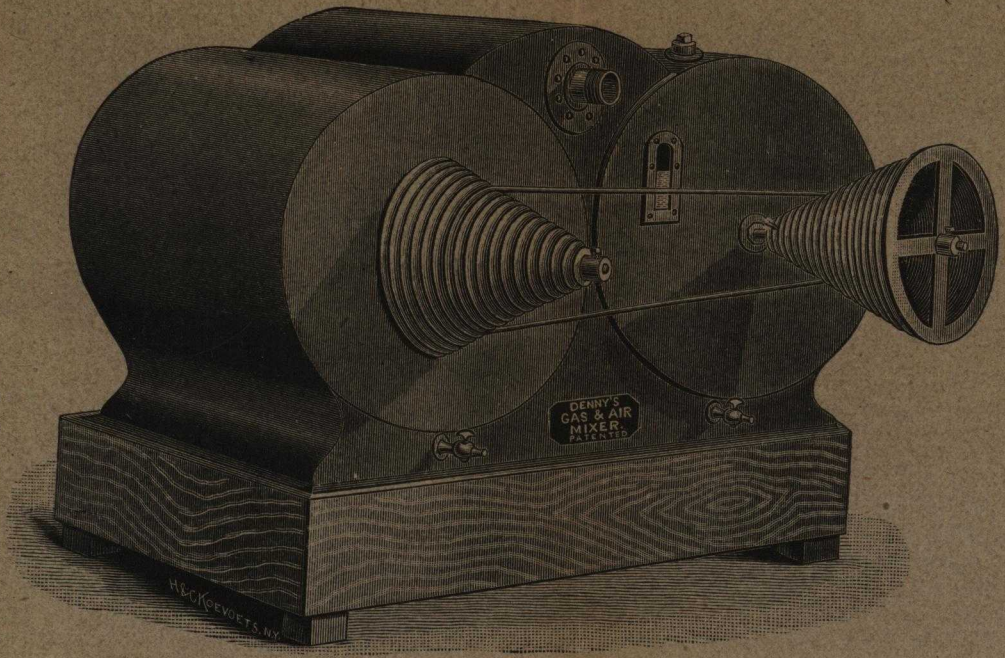
The gas pipe from generator connects with inlet of *gas* meter, so that *all* the gas must pass through the MIXER. A branch air pipe is connected with inlet of *air* meter. The meters deliver their gas and air into a common mixing chamber at top of MIXER, whence the mixed (or qualified) gas passes through the pipes to the burners.

The shafts of meters are provided with cone pulleys (grooved as shown in cut) which are connected together by a rubber belt. The relative movement of the meters is determined by the position of the rubber belt on the cone pulleys, and the proportions of Gas and Air passing into the mixing chamber is exactly according to such relative movement of the meters.

When fresh gasolene is put into the generator, the belt is placed in grooves nearest the MIXER, which makes the movement of the *air* meter much faster than that of the *gas* meter, and secures a mixture of about 10 parts gas to 90 parts air. As the gasolene is reduced the belt is shifted from time to time, until on the grooves farthest from the MIXER, when the mixture is about 90 parts gas to 10 parts air.

The shifting of belt is all the attention required. It is the work of a moment, and has to be done but three or four times a month.

DENNY'S GAS AND AIR MIXER



GASOLENE

Our IMPERIAL GASOLENE, 86°, 88°, and 90° gravity, is the best that can be made for use in Gas Machines.

It is perfectly uniform in gravity, ensuring maximum vaporization.

Every barrel is gauged just before shipment.

We give close attention to this department of our business, and all orders are filled promptly.

We deliver in New York, Boston, Philadelphia, Baltimore, Cleveland, and other cities, *at lowest market prices.*

SEND FOR PRICE CARD

TRY our Imperial Gasolene and you will use no other.

OUR CARD

DENNY BROTHERS

MECHANICAL ENGINEERS

36 Park Place .. .. New York

PROPRIETORS OF THE IMPERIAL GAS MACHINE

DEALERS IN IRON PIPE AND FITTINGS

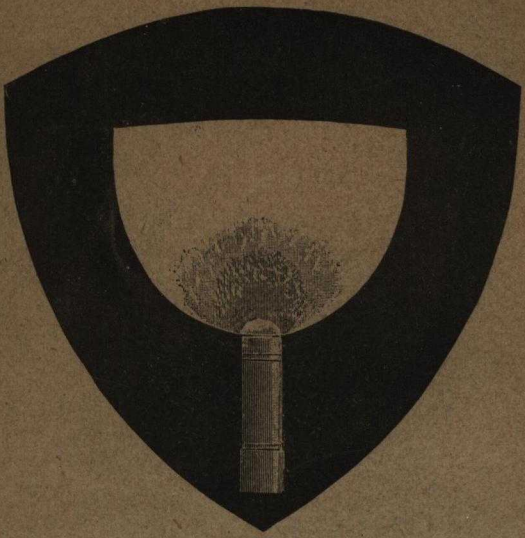
GAS FIXTURES, GAS STOVES

THE DUNNING STEAM BOILER . . . . .

. . . THE DUNNING HOT-WATER HEATER

THE DENNY COMBINATION HEATER . . . .

Plans and Specifications prepared for Lighting, Heating, and Ventilating all classes of buildings



DENNY'S IMPERIAL BURNER

FOR USE WITH MIXED GAS

PRODUCES A STRONG, WHITE, SMOKELESS LIGHT.

If you have a Gas Machine with Mixer, try this Burner.

Price per gross, net $36.00